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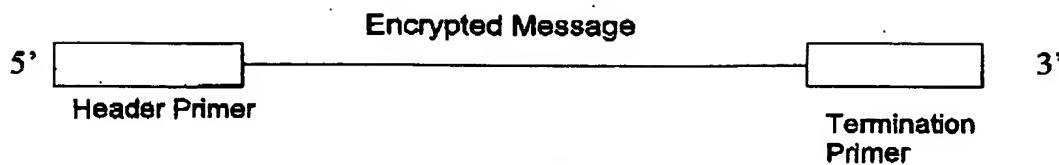


Fig. 1a. Single Segment

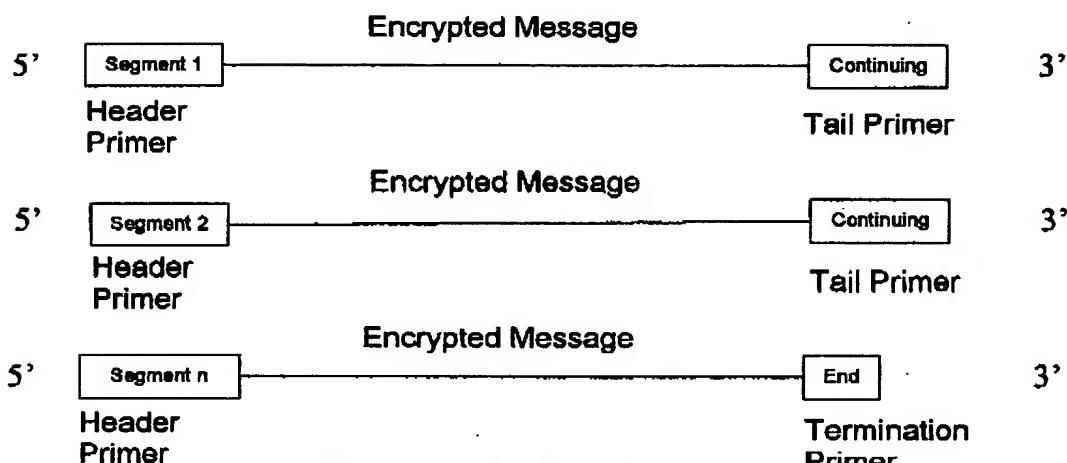
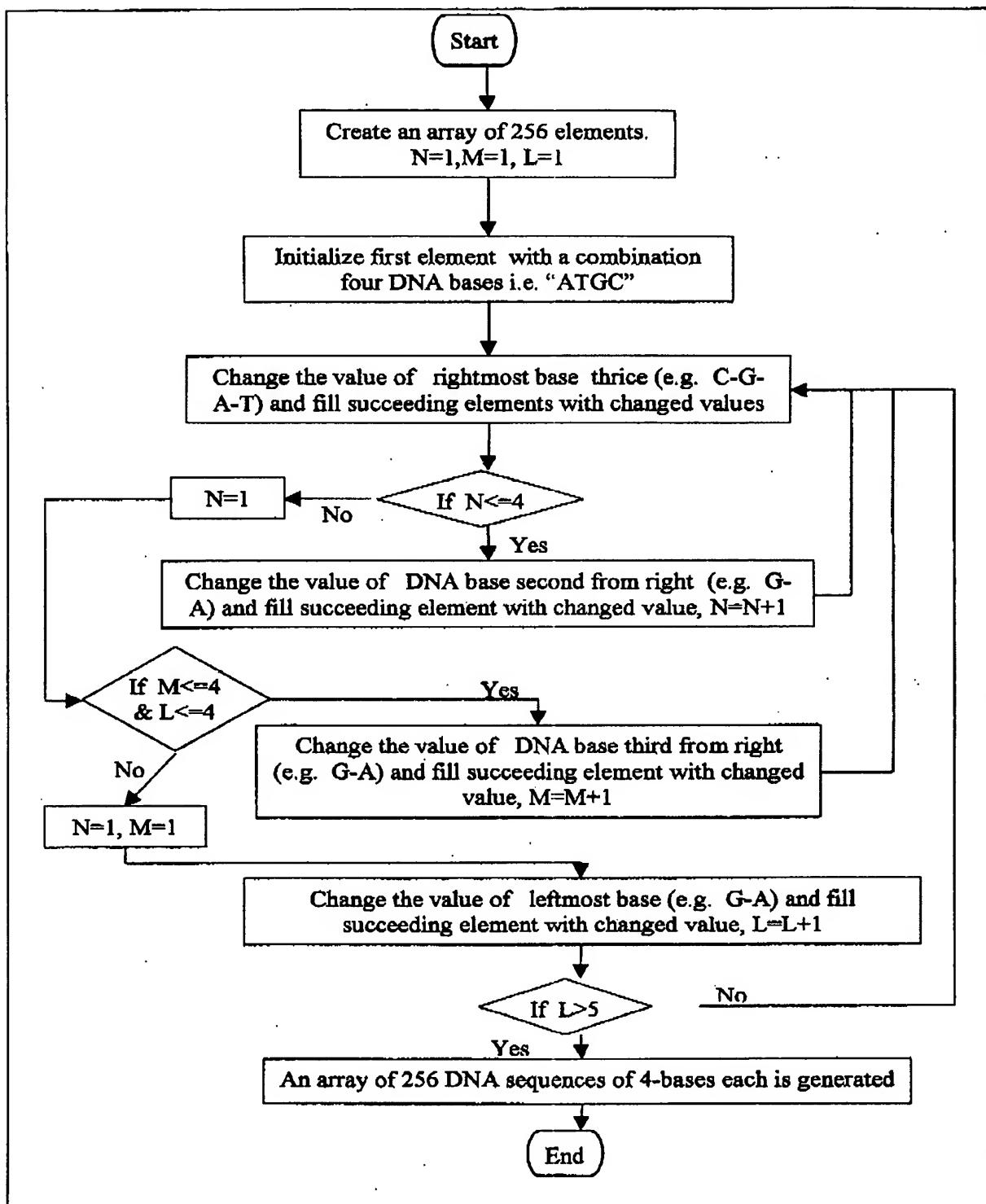


Fig. 1b. Multi Segment

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Fig. 2. Encryption of extended ASCII character set in terms of DNA bases

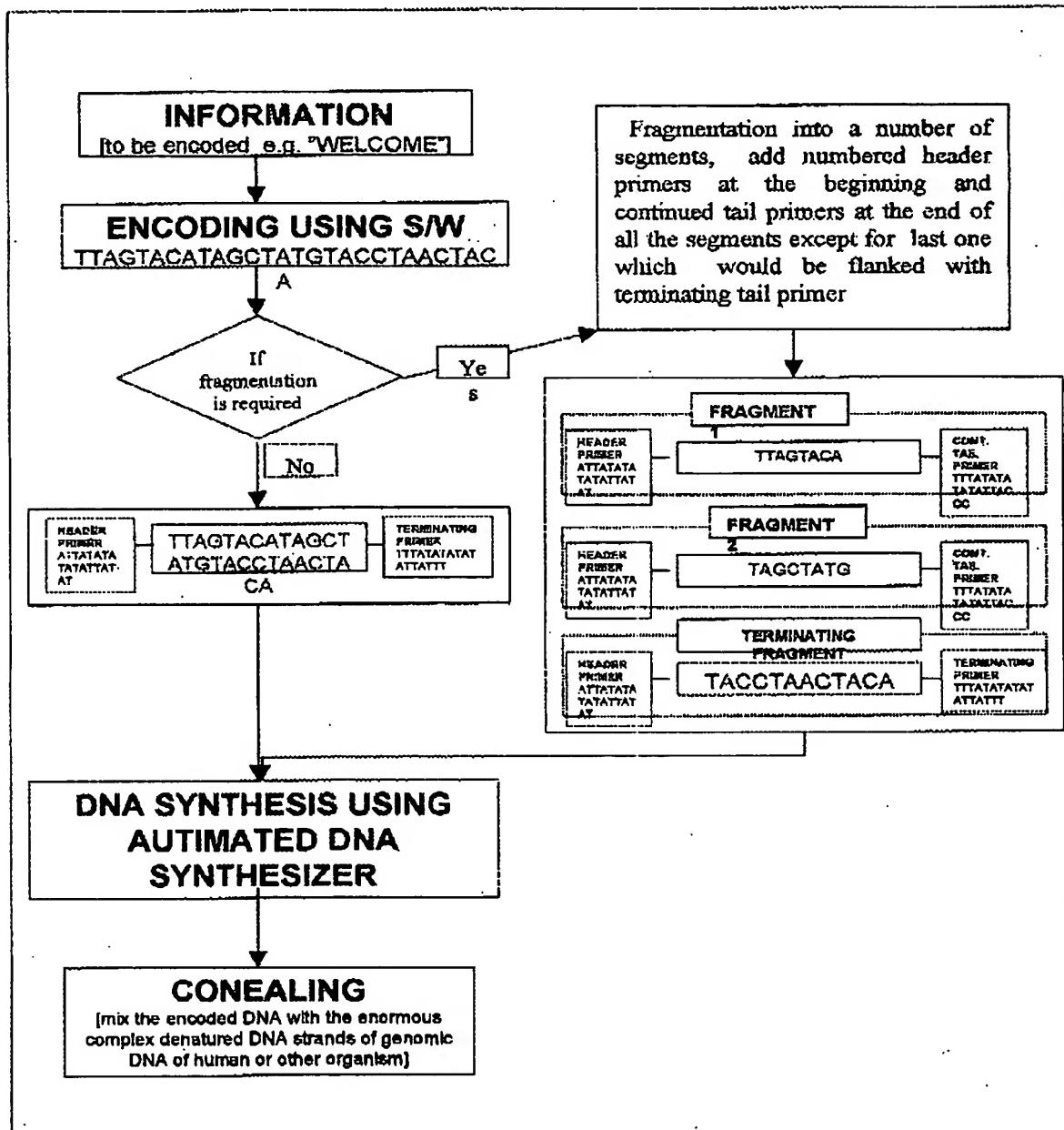
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Fig 3. Encryption Key. ASCII characters in terms of DNA strands

Dec	A S C II	DNA CODE															
0		ATCG	44		ACCA	88	X	TTAA	132	"	CGTA	176	•	CCCA	220	Ü	GGGT
1	□	ATCG	45	-	AGAA	89	Y	TTTA	133	..	CGCA	177	±	CCGA	221	Ý	GGAT
2	□	ATAC	46	.	AGTA	90	Z	TTCA	134	†	CGGA	178	‡	CCAA	222	þ	GGTT
3	□	ATTG	47	/	ACCA	91	I	TTGA	135	‡	CCAA	179	³	CCTA	223	ß	GGCT
4	□	ATTA	48	0	AACA	92	\	TTGT	136	·	CGAT	180	·	CCTT	224	à	GACT
5	□	ATCA	49	1	AAGA	93	]	TTAT	137	%	CGTT	181	µ	CCCT	225	á	GAGT
6	□	ATCA	50	2	AAAA	94	^	TTTT	138	§	CGCT	182	¶	CCGT	226	à	GAAT
7		ATAA	51	3	AATA	95	-	TTCT	139	·	CGGT	183	·	CCAT	227	á	GATT
8	□	ATAT	52	4	AATT	96	-	TCCT	140	ç	CGGC	184	ç	CCAC	228	à	GATC
9		ATTT	53	5	AACT	97	ä	TCTT	141	ö	CGAC	185	¹	CCTC	229	à	CACC
10		ATCT	54	6	AAGT	98	þ	TCAT	142	ö	CGTC	186	º	CCCC	230	æ	GAGC
11		ATGT	55	7	AAAT	99	ç	TCTT	143	ö	CGCC	187	»	CCGC	231	ç	GAAC
12		ATGC	56	8	AAAC	100	ð	TCTC	144	ö	CAAC	188	¼	CCGG	232	è	CAAC
13		ATAC	57	9	AATC	101	é	TCCC	145	·	CAGC	189	½	CCAG	233	é	GATG
14		ATTC	58	:	AACC	102	f	TCCG	146	·	CAAC	190	¾	CCTG	234	é	GACG
15	□	ATCC	59	;	AAGC	103	g	TCAC	147	·	CATC	191	¼	CCCG	235	é	GAGG
16	□	ACCC	60	<	AAGG	104	h	TCAG	148	·	CATG	192	À	GCCG	236	í	GAGA
17	□	ACGC	61	-	AAAG	105	i	TCTG	149	·	CACG	193	À	CGGG	237	í	GAAA
18	□	ACAC	62	>	AATC	106	j	TCCC	150	-	CAGG	194	À	CCAG	238	í	GATA
19	□	ACTC	63	?	AACG	107	k	TCCG	151	-	CAAG	195	À	CCTG	239	í	GACA
20	□	ACTG	64	®	TACG	108	l	TCGA	152	-	CAAA	196	À	CCTA	240	à	GTCA
21	□	ACCG	65	À	TAGG	109	m	TCAA	153	»	CATA	197	À	CCCA	241	ñ	GTCA
22	□	ACGG	66	ß	TAAG	110	n	TCTA	154	þ	CACA	198	À	CCGA	242	à	GTAA
23	□	ACAG	67	C	TATG	111	o	TCCA	155	»	CAGA	199	À	CCAA	243	à	GTTA
24	□	ACAA	68	D	TATA	112	p	TGCA	156	ø	CAGT	200	È	CCAT	244	à	GTTT
25	□	ACTA	69	E	TACA	113	q	TGGA	157	ø	CAAT	201	È	CCTT	245	à	GTCT
26	□	ACCA	70	F	TAGA	114	r	TGAA	158	ø	CATT	202	È	GCCT	246	à	GTGT
27	□	ACGA	71	G	TAAG	115	s	TGTA	159	Ý	CACT	203	È	GGCT	247	+	GTAT
28	□	ACGT	72	H	TAAT	116	t	TGTT	160	È	CTCT	204	È	GGCG	248	à	CTAC
29	□	ACAT	73	i	TATT	117	u	TGCT	161	È	CTGT	205	È	GCAC	249	à	TTTC
30	-	ACTT	74	j	TACT	118	v	TGGT	162	ç	CTAT	206	È	CCTC	250	à	GTCC
31		ACCT	75	K	TAGT	119	w	TGAT	163	È	CTTT	207	Ý	GGCC	251	à	GTGC
32		AGCT	76	L	TAGC	120	x	TGAC	164	ø	CTTC	208	È	GGCC	252	à	GTGG
33	!	AGGT	77	M	TAAC	121	y	TGTC	165	Ý	CTCC	209	Ñ	GGGC	253	ý	GTAG
34	"	AGAT	78	N	TATC	122	z	TGCC	166	È	CTGC	210	Ø	GGAC	254	à	GTTC
35	#	AGTT	79	O	TACC	123	l	TGGC	167	§	CTAC	211	Ø	GGTC	255	ý	GTCG
36	\$	AGTC	80	P	TTCC	124	l	TGGG	168	-	CTAG	212	Ø	GGTG			
37	%	AGCC	81	Q	TTCC	125	l	TGAG	169	Ø	CTTG	213	Ø	GGCG			
38	&	AGCC	82	R	TTAC	126	~	TGTC	170	·	CTCG	214	Ø	GGCG			
39	'	AGAC	83	S	TTTC	127	Ø	TGGG	171	«	CTGG	215	×	GGAC			
40	(	AGAG	84	T	TTTG	128	Ø	CGCG	172	-	CTGA	216	Ø	GGAA			
41	)	AGTC	85	U	TTCC	129	Ø	CGGG	173	-	CTAA	217	Ü	GGTA			
42	*	AGCG	86	V	TTGG	130	,	CGAG	174	Ø	CTTA	218	Ü	GGCA			
43	+	ACGG	87	W	TTAG	131	f	CGTG	175	Ø	CTCA	219	Ü	GGGA			

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Fig.4. Process sheet for encryption & storage



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Fig.5. Process summary

